



State of Michigan
John Engler, Governor

Department of Consumer & Industry Services
Kathleen M. Wilbur, Director

G. Mennen Williams Building
P.O. Box 30004
Lansing, Michigan 48909-7504
517-373-1820

January 29, 2001

The Honorable Loren Bennett
Senate Regulatory Subcommittee
Michigan State Senate
P.O. Box 30036
Lansing, Michigan 48909

Dear Senator Bennett:

Pursuant to Section 322 of P.A. 293 of 2000, enclosed is the Occupational Injuries, Illnesses and Fatalities in Michigan report as prepared by the Department of Consumer and Industry Services, Bureau of Safety and Regulation.

This notification may also be viewed on our web site at the following address:
http://www.cis.state.mi.us/fast/leg_rep.htm. If you have any questions regarding this information, please feel free to contact me at 373-3892.

Sincerely,

John R. Suckow, C.P.A.
Director, Finance and Administrative Services

JRS:hab

C: Senate Regulatory Subcommittee
Kathleen M. Wilbur
Kalmin Smith
Maria Tyszkiewicz
Don Reichle
Doug Earle



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January 29, 2000

The Honorable Marc Shulman, Chairman
House Consumer and Industry Services Subcommittee
Michigan House of Representatives
P.O. Box 30014
Lansing, Michigan 48909

Dear Representative Godchaux:

Pursuant to Section 322 of P.A. 293 of 2000, enclosed is the Occupational Injuries, Illnesses and Fatalities in Michigan report as prepared by the Department of Consumer and Industry Services, Bureau of Safety and Regulation.

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Doug Earle

REPORT TO THE LEGISLATURE
OCCUPATIONAL INJURIES, ILLNESSES
AND FATALITIES IN MICHIGAN

Developed by the Bureau of Safety and Regulation
Michigan Department of Consumer and Industry Services

February 2001

MICHIGAN OCCUPATIONAL INJURIES, ILLNESSES AND FATALITIES

February 2001

INTRODUCTION

The information that follows is presented in response to Section 322 of Public Act 293 of 2000. This section requires that the Department of Consumer and Industry Services, Bureau of Safety and Regulation, provide an annual report by February 1 of each year "... to the appropriate house and senate appropriations subcommittees and the fiscal agencies on the number of individuals killed and the number of individuals injured on the job within industries regulated by the bureau during the preceding calendar year."

"PROGRAM-RELATED" FATALITIES

The bureau records "program-related" fatalities. In general this means that the incident related to the fatality may have resulted from a hazard or hazards that occurred based upon a failure to adhere to one or more Michigan Occupational Safety and Health Act (MIOSHA) requirements. There were 59 such fatalities in Michigan during calendar year 2000. (See following table for data and definitions.)

WORKPLACE INJURIES AND ILLNESSES

A complete census of occupational illnesses and injuries for Michigan does not exist. However, the bureau cooperates with the U.S. Bureau of Labor Statistics to sample Michigan's employers to produce annual estimates of the number of occurrences of work-related illness and injuries. The 2000 survey collected the 1999 illness and injury occurrences of 7,390 Michigan employers of which 5,934 were usable for estimation. The employer sample was stratified by industry and the results were used to project total occurrence estimates. The five-page table that follows the fatality data presents the results. Footnotes at the end of the table provide additional information about the methodology used. The sample excludes self-employed individuals, railroads, selected mining industries and the federal government.

INQUIRIES

Questions about these data may be directed to the MIOSHA Information Division, Bureau of Safety and Regulation, telephone (517) 322-1851.

**MIOSHA Program-Related Fatalities
Calendar Year 2000**

Occupational Health	2
General Industry	34
Construction	23
<hr/>	
TOTAL	59*

*Data is current as of 1/11/01.

Source: **MIOSHA Information Division,
Bureau of Safety and Regulation
Michigan Department of Consumer and Industry Services**

NOTE: A fatality is recorded as "program-related" if it appears to be related to one or more of the following conditions:

- 1. The incident was found to have resulted from violations of MIOSHA safety and health standards or the general duty clause.**
- 2. The incident was considered to be the result of a failure to follow a good safety and health practice that would be the subject of a safety and health recommendation.**
- 3. The information describing the incident is insufficient to make a clear distinction between a "program-related" and "non-program-related" incident, but the type and nature of the injury indicate that there is a high probability that the injury was a result of a failure to adhere to one or more MIOSHA standards, the general duty clause, or good safety and health practice.**

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999

Michigan										
(In thousands)										
Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
All Industries including State and local government ⁶		4,443.7	296.7	144.5	68.4	152.2	259.3	128.3	61.7	131.1
Private Industry ⁶		3,893.6	269.7	130.6	59.5	139.1	234.1	115.1	53.5	118.9
Agriculture, forestry, and fishing ⁶		45.0	3.1	1.5	1.0	1.6	2.8	1.4	0.9	1.4
Agricultural production ⁶	01-02	17.9	1.2	0.6	0.2	0.6	1.1	0.6	0.2	0.5
Agricultural services	07	26.3	1.9	0.9	0.7	1.0	1.7	0.8	0.7	0.9
Mining ⁷		7.2	0.5	0.3	0.2	0.2	0.5	0.2	0.1	0.2
Construction		193.9	14.4	6.3	5.1	8.1	13.9	6.0	4.8	7.9
General building contractors	15	43.7	2.6	1.0	0.9	1.5	2.4	0.9	0.7	1.4
Residential building construction	152	26.2	1.1	0.4	0.4	0.7	0.9	0.3	0.3	0.6
Nonresidential building construction	154	17.2	1.5	0.6	0.5	0.8	1.4	0.6	0.5	0.8
Heavy construction, except building	16	15.0	1.6	0.7	0.6	0.9	1.5	0.7	0.6	0.8
Heavy construction, except highway	162	10.7	1.3	0.6	0.5	0.7	1.2	0.6	0.5	0.6
Special trade contractors	17	135.2	10.2	4.5	3.7	5.7	10.0	4.3	3.5	5.6
Plumbing, heating, air-conditioning	171	30.9	2.4	0.7	0.5	1.7	2.3	0.6	0.5	1.7
Electrical work	173	26.9	2.0	0.8	0.6	1.2	2.0	0.8	0.6	1.1
Masonry, stonework, and plastering	174	14.8	1.1	0.6	0.5	0.5	1.0	0.5	0.4	0.5
Carpentry and floor work	175	12.6	1.0	0.4	0.4	0.6	1.0	0.4	0.4	0.6
Roofing, siding, and sheet metal work	176	7.7	0.8	0.4	0.4	0.4	0.8	0.4	0.3	0.3
Concrete work	177	12.1	0.8	0.5	0.4	0.3	0.8	0.4	0.4	0.3
Miscellaneous special trade contractors	179	23.2	1.7	0.8	0.6	0.9	1.7	0.8	0.6	0.9
Manufacturing		975.2	134.4	63.6	22.3	70.8	104.6	51.3	18.6	53.3
Durable goods		741.8	110.0	49.2	16.5	60.8	85.3	39.7	13.9	45.5
Lumber and wood products	24	17.8	2.0	1.1	0.7	0.8	1.8	1.1	0.6	0.7
Millwork, plywood and structural members	243	6.8	1.0	0.6	0.3	0.3	0.9	0.6	0.3	0.3
Furniture and fixtures	25	43.0	7.0	3.7	1.3	3.3	5.6	2.9	1.0	2.7
Office furniture	252	21.0	2.2	1.0	0.2	1.1	1.7	0.8	0.2	1.0
Partitions and fixtures	254	4.5	1.1	0.9	0.3	0.3	0.9	0.7	0.2	0.2
Wood partitions and fixtures	2541	2.1	0.5	0.4	0.1	0.2	0.5	0.3	0.1	0.2
Stone, clay, and glass products	32	21.3	2.5	1.1	0.5	1.4	2.2	1.0	0.5	1.2
Products of purchased glass	323	8.6	1.1	0.6	0.1	0.5	0.8	0.4	0.1	0.4
Concrete, gypsum, and plaster products	327	6.3	1.0	0.4	0.3	0.6	1.0	0.4	0.3	0.6
Primary metal industries	33	37.5	7.1	3.4	1.5	3.6	6.4	3.1	1.4	3.3
Blast furnace and basic steel products	331	11.8	1.4	0.6	0.2	0.9	1.3	0.5	0.2	0.8
Blast furnaces and steel mills	3312	8.5	1.1	0.4	0.2	0.7	1.0	0.4	0.1	0.6
Iron and steel foundries	332	10.3	2.7	1.3	0.6	1.4	2.5	1.1	0.5	1.3
Gray and ductile iron foundries	3321	7.3	1.9	0.9	0.4	1.0	1.7	0.8	0.4	0.9
Nonferrous foundries (castings)	336	7.0	1.3	0.6	0.2	0.7	1.2	0.5	0.2	0.7
Fabricated metal products	34	129.9	22.5	10.4	3.3	12.1	20.1	9.3	2.9	10.8
Cutlery, handtools, and hardware	342	5.6	0.8	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Hardware, n.e.c.	3429	4.4	0.6	0.3	0.2	0.3	0.5	0.3	0.1	0.2
Fabricated structural metal products	344	16.0	1.8	0.9	0.5	0.9	1.7	0.8	0.5	0.9
Sheet metal work	3444	5.0	0.6	0.3	0.1	0.3	0.5	0.2	0.1	0.3
Screw machine products, bolts, etc.	345	14.4	2.7	1.3	0.5	1.4	2.6	1.2	0.5	1.3

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Screw machine products	3451	7.5	1.2	0.6	0.2	0.7	1.1	0.5	0.2	0.6
Bolts, nuts, rivets, and washers	3452	6.9	1.5	0.7	0.3	0.8	1.5	0.7	0.3	0.8
Metal forgings and stampings	346	60.4	13.0	5.4	1.2	7.6	11.5	4.8	1.1	6.7
Automotive stampings	3465	54.4	11.6	4.8	1.0	6.8	10.2	4.3	0.9	5.9
Metal services, n.e.c.	347	14.6	2.0	1.2	0.4	0.8	1.7	1.0	0.3	0.7
Plating and polishing	3471	7.5	1.0	0.7	0.2	0.3	0.9	0.6	0.2	0.3
Metal coating and allied services	3479	7.1	1.0	0.5	0.2	0.5	0.9	0.4	0.1	0.4
Miscellaneous fabricated metal products	349	16.6	2.1	1.1	0.5	1.0	1.8	1.0	0.4	0.8
Industrial machinery and equipment	35	132.4	14.7	7.5	3.3	7.2	13.3	6.9	3.0	6.4
Construction and related machinery	353	9.7	1.2	0.6	0.2	0.6	1.2	0.6	0.2	0.6
Metalworking machinery	354	64.0	6.2	3.2	1.5	3.1	6.1	3.1	1.5	3.0
Machine tools, metal cutting types	3541	7.1	0.7	0.5	0.2	0.2	0.7	0.5	0.2	0.2
Special dies, tools, jigs and fixtures	3544	35.0	3.8	1.7	0.9	2.1	3.7	1.7	0.9	2.0
Machine tool accessories	3545	10.3	0.6	0.3	0.1	0.3	0.5	0.3	0.1	0.3
Special industry machinery	355	7.3	0.7	0.4	0.2	0.3	0.7	0.4	0.2	0.3
General industrial machinery	356	12.4	1.8	0.9	0.4	0.9	1.6	0.8	0.3	0.8
Industrial machinery, n.e.c.	359	28.0	3.5	2.0	0.9	1.5	3.0	1.7	0.7	1.2
Carburetors, pistons, rings, valves	3592	6.1	1.0	0.6	0.3	0.4	0.7	0.5	0.2	0.2
Industrial machinery, n.e.c.	3599	18.9	2.1	1.2	0.5	0.9	2.0	1.1	0.5	0.9
Electronic and other electric equipment	36	35.0	3.8	1.7	0.7	2.2	2.5	1.2	0.5	1.3
Household appliances	363	8.0	0.5	0.2	0.2	0.3	—	0.1	0.1	0.2
Electronic components and accessories	367	8.2	0.6	0.3	0.1	0.2	0.5	0.3	(^a)	0.2
Miscellaneous electrical equipment and supplies	369	8.2	1.9	0.7	0.3	1.3	0.9	0.4	0.2	0.5
Transportation equipment	37	299.8	48.5	19.3	4.9	29.2	31.7	13.6	3.8	18.1
Motor vehicles and equipment	371	288.0	47.1	18.8	4.7	28.3	30.6	13.1	3.7	17.4
Motor vehicles and car bodies	3711	142.2	24.5	10.2	2.9	14.4	16.2	7.1	2.2	9.1
Motor vehicle parts and accessories	3714	144.0	22.3	8.5	1.8	13.8	14.1	6.0	1.4	8.1
Instruments and related products	38	16.8	1.2	0.4	0.1	0.7	1.0	0.3	0.1	0.7
Measuring and controlling devices	382	8.8	0.8	0.2	0.1	—	0.8	0.2	0.1	—
Medical instruments and supplies	384	4.7	0.3	0.2	(^a)	0.1	0.2	0.1	(^a)	0.1
Miscellaneous manufacturing industries	39	8.3	0.8	0.5	0.2	0.3	0.7	0.4	0.1	0.3
Nondurable goods		233.5	24.3	14.3	5.8	10.0	19.4	11.6	4.7	7.8
Food and kindred products	20	38.1	4.4	2.9	1.2	1.5	3.9	2.6	1.1	1.3
Meat products	201	5.7	0.6	0.4	0.1	0.2	0.5	0.3	0.1	0.2
Dairy products	202	4.7	0.5	0.4	0.2	0.1	0.5	0.4	0.2	0.1
Preserved fruits and vegetables	203	6.8	0.6	0.4	0.1	0.3	0.6	0.3	0.1	0.2
Grain mill products	204	5.6	0.4	0.2	0.2	0.2	0.4	0.2	0.1	0.2
Bakery products	205	5.6	0.7	0.5	0.2	0.2	0.6	0.4	0.2	0.2
Beverages	208	4.9	0.7	0.5	0.3	0.2	0.6	0.5	0.3	0.2
Apparel and other textile products	23	20.3	3.5	2.2	0.5	1.4	2.0	1.2	0.3	0.8
Miscellaneous fabricated textile products	239	19.8	3.5	2.2	0.5	1.4	2.0	1.2	0.3	0.8
Automotive and apparel trimmings	2396	17.1	3.4	2.1	0.4	1.3	1.9	1.1	0.2	0.8
Paper and allied products	26	20.2	1.9	1.1	0.5	0.8	1.8	1.1	0.4	0.7
Paper mills	262	4.9	0.3	0.1	0.1	0.2	0.3	0.1	0.1	0.2
Paperboard containers and boxes	265	7.3	1.0	0.7	0.2	0.3	0.9	0.7	0.2	0.3
Printing and publishing	27	42.5	2.7	1.5	0.9	1.2	2.3	1.3	0.8	1.0
Newspapers	271	13.8	0.7	0.4	0.3	0.3	0.6	0.4	0.3	0.3
Books	273	5.0	0.4	0.3	0.1	0.2	0.4	0.2	0.1	0.2
Commercial printing	275	16.5	1.0	0.6	0.3	0.4	0.9	0.5	0.3	0.3

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan										
(In thousands)										
Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Commercial printing, lithographic	2752	12.7	0.7	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Chemicals and allied products	28	43.5	2.4	1.2	0.5	1.2	1.9	1.1	0.4	0.8
Plastics materials and synthetics	282	6.1	0.3	0.2	—	0.1	—	0.1	—	—
Drugs	283	14.0	0.9	0.3	0.2	0.6	0.6	0.2	0.1	0.3
Pharmaceutical preparations	2834	13.2	0.8	0.2	0.1	0.5	0.5	0.2	0.1	0.3
Rubber and miscellaneous plastics products	30	62.8	8.4	5.0	2.1	3.4	6.9	4.0	1.5	2.9
Miscellaneous plastics products, n.e.c.	308	52.9	7.2	4.3	1.8	2.9	6.1	3.5	1.4	2.5
Plastics products, n.e.c.	3089	40.2	5.7	3.5	1.4	2.2	4.7	2.8	1.0	1.9
Transportation and public utilities⁷		170.6	16.2	9.9	5.2	6.3	15.8	9.7	5.0	6.1
Railroad transportation ⁷	40	—	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1
Local and interurban passenger transit	41	7.9	1.0	0.6	0.5	0.4	1.0	0.6	0.5	0.4
Trucking and warehousing	42	47.3	4.9	2.7	2.0	2.3	4.8	2.6	1.9	2.2
Transportation by air	45	32.7	4.5	3.1	1.4	1.4	4.4	3.0	1.3	1.4
Transportation services	47	16.4	1.6	1.1	0.4	0.5	1.6	1.1	0.4	0.5
Communications	48	31.5	1.2	0.8	0.3	0.4	1.1	0.8	0.3	0.3
Electric, gas, and sanitary services	49	32.3	2.4	1.3	0.6	1.1	2.3	1.2	0.6	1.1
Wholesale and retail trade		1,056.4	55.6	26.5	14.1	29.2	53.8	25.2	13.3	28.6
Wholesale trade		234.5	19.3	9.4	5.4	9.9	18.2	8.7	5.0	9.5
Wholesale trade--durable goods	50	155.1	12.2	5.2	3.2	7.0	11.4	4.7	3.0	6.7
Wholesale trade--nondurable goods	51	79.4	7.1	4.2	2.2	2.9	6.8	4.0	2.0	2.8
Retail trade		822.0	36.4	17.1	8.7	19.3	35.6	16.5	8.3	19.1
Building materials and garden supplies	52	40.9	3.2	1.7	0.9	1.5	3.1	1.7	0.8	1.4
Lumber and other building materials	521	21.2	2.0	1.1	0.5	0.9	1.9	—	—	0.9
Hardware stores	525	11.3	0.8	0.4	0.2	0.3	0.7	0.4	0.2	0.3
General merchandise stores	53	131.9	8.3	5.9	2.0	2.4	8.1	5.8	1.9	2.3
Food stores	54	103.6	4.9	1.9	1.2	3.0	4.8	1.8	1.2	3.0
Grocery stores	541	88.7	4.3	1.8	1.1	2.5	4.2	1.7	1.1	2.4
Automotive dealers and service stations	55	85.8	4.5	1.9	1.1	2.5	4.4	1.9	1.0	2.5
New and used car dealers	551	40.1	2.5	0.9	0.5	1.5	2.4	0.9	0.5	1.5
Gasoline service stations	554	27.7	1.0	0.5	0.2	0.5	1.0	0.5	0.2	0.5
Apparel and accessory stores	56	35.5	0.8	0.3	0.2	0.5	0.7	0.2	0.1	0.5
Furniture and home furnishings stores	57	35.7	1.7	0.8	0.5	0.9	1.7	0.8	0.5	0.9
Eating and drinking places	58	287.3	10.5	3.3	2.0	7.1	10.4	3.3	2.0	7.1
Miscellaneous retail	59	101.2	2.6	1.2	0.9	1.4	2.5	1.2	0.8	1.4
Finance, insurance, and real estate		201.8	3.1	1.7	1.2	1.3	2.7	1.6	1.1	1.2
Depository institutions	60	62.8	0.6	0.3	0.2	0.3	0.5	0.2	0.2	0.3
Insurance carriers	63	42.2	0.6	0.4	0.2	0.2	0.5	0.3	0.2	0.2
Real estate	65	39.5	1.5	0.9	0.6	0.6	1.5	0.9	0.6	0.5
Services		1,197.4	42.4	20.9	10.4	21.5	39.9	19.8	9.5	20.2
Hotels and other lodging places	70	37.4	2.8	1.2	0.5	1.6	2.7	1.2	0.5	1.5

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Personal services	72	44.0	0.9	0.6	0.3	0.4	0.9	0.5	0.3	0.4
Laundry, cleaning, and garment services	721	15.3	0.8	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Auto repair, services, and parking	75	40.2	2.1	0.9	0.5	1.2	2.1	0.9	0.5	1.2
Automotive repair shops	753	23.4	1.1	0.5	0.2	0.6	1.1	0.5	0.2	0.6
Automotive services, except repair	754	10.4	0.6	0.3	0.3	0.3	0.6	0.3	0.3	0.2
Miscellaneous repair services	76	13.7	1.0	0.5	0.2	0.5	1.0	0.5	0.2	0.5
Amusement and recreation services	79	56.1	2.4	1.3	0.6	1.1	2.1	1.2	0.6	1.0
Health services	80	353.9	17.2	9.1	4.2	8.1	15.9	8.7	4.0	7.2
Nursing and personal care facilities	805	47.8	5.3	3.4	1.3	1.9	5.1	3.4	1.3	1.7
Hospitals	806	169.1	10.0	5.0	—	5.0	9.0	4.7	—	4.3
Educational services	82	37.5	0.6	0.2	0.2	0.4	0.6	0.2	0.2	0.4
Colleges and universities	822	15.3	0.4	0.1	0.1	0.3	0.4	0.1	0.1	0.3
Social services	83	86.0	4.3	2.1	1.2	2.2	4.2	2.1	1.2	2.1
State and local government		550.1	27.0	13.9	8.9	13.1	25.3	13.1	8.2	12.1
State government		139.1	6.0	3.4	2.1	2.6	5.4	3.1	1.9	2.2
Services		90.4	3.2	1.8	0.9	1.4	2.9	1.6	0.8	1.2
Educational services	82	65.5	1.8	0.9	0.4	0.9	1.5	0.8	0.4	0.7
Social services	83	11.0	0.5	0.2	0.1	0.3	0.4	0.2	0.1	0.2
Public administration		48.7	2.8	1.6	1.2	1.2	2.5	1.5	1.1	1.0
Justice, public order, and safety	92	23.1	2.0	1.2	0.9	0.7	1.7	1.1	0.8	0.6
Administration of human resources	94	8.9	0.2	0.1	—	0.1	—	0.1	—	0.1
Administration of economic programs	96	6.6	0.3	0.1	0.1	0.2	0.3	0.1	0.1	0.1
Local government		411.0	21.0	10.5	6.8	10.4	19.9	10.0	6.3	9.9
Construction		5.6	0.8	0.4	0.3	0.5	0.7	0.3	0.2	0.4
Services		269.4	10.5	4.9	3.1	5.5	10.1	4.7	2.9	5.4
Nursing and personal care facilities	805	5.6	0.9	0.7	0.5	0.2	0.9	0.7	0.4	0.2
Hospitals	806	14.5	1.1	0.6	0.4	0.5	1.0	0.5	0.4	0.5
Educational services	82	247.6	8.4	3.6	2.2	4.8	8.2	3.5	2.1	4.7
Elementary and secondary schools	821	228.4	8.0	3.3	2.1	4.6	7.7	3.2	2.0	4.5

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Public administration		132.3	9.3	5.0	3.2	4.3	8.7	4.7	3.0	4.0
Executive, legislative, and general Administration of human resources	91 94	119.3 7.7	8.4 0.3	4.5 0.3	2.9 0.1	3.9 0.1	8.0 --	4.2 0.3	2.7 0.1	3.8 (*)

¹ Totals include data for industries not shown separately.² *Standard Industrial Classification Manual*, 1987 Edition.³ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program.⁴ Total lost workday cases involve days away from work, or days of restricted work activity, or both.⁵ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.⁶ Excludes farms with fewer than 11 employees.⁷ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent

mining contractors are excluded from the coal, metal, and nonmetal mining industries.

⁸ Fewer than 50 cases.

NOTE: Because of rounding, components may not add to totals.

n.e.c. = not elsewhere classified.

-- Indicates data not available.


SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses, in cooperation with participating State agencies.

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BUREAU OF SAFETY

LATION
NDUM

FILE

Date: January 16, 2001
To: Kalmin D. Smith, Ph.D.
From: Douglas R. Earle 
Subject: Legislative Report

Section 322 of the '01 budget boilerplate requires that by February 1 a report be provided to the appropriate house and senate appropriations subcommittees and the fiscal agencies "on the number of individuals killed and the number of individuals injured on the job within industries regulated by the bureau during the preceding calendar year."

Attached is the report that includes the 2000 "program-related" fatality counts and the number of occupational injuries and illnesses by industry projected from the 1999 U.S. Bureau of Labor Statistics (BLS) survey. As you know, employers are not required to report all occupational injuries and illnesses. Therefore, the data that most closely approximate "individuals injured" are the data from the survey that was conducted during 2000 and reports 1999 illnesses and injuries.

Call me if you have questions or need additional information.

Attachment

cc: John Suckow
Don Reichle
Deborah Grether
Doug Kalinowski

REPORT TO THE LEGISLATURE
OCCUPATIONAL INJURIES, ILLNESSES
AND FATALITIES IN MICHIGAN

Developed by the Bureau of Safety and Regulation
Michigan Department of Consumer and Industry Services

February 2001

MICHIGAN OCCUPATIONAL INJURIES, ILLNESSES AND FATALITIES

February 2001

INTRODUCTION

The information that follows is presented in response to Section 322 of Public Act 293 of 2000. This section requires that the Department of Consumer and Industry Services, Bureau of Safety and Regulation, provide an annual report by February 1 of each year "... to the appropriate house and senate appropriations subcommittees and the fiscal agencies on the number of individuals killed and the number of individuals injured on the job within industries regulated by the bureau during the preceding calendar year."

"PROGRAM-RELATED" FATALITIES

The bureau records "program-related" fatalities. In general this means that the incident related to the fatality may have resulted from a hazard or hazards that occurred based upon a failure to adhere to one or more Michigan Occupational Safety and Health Act (MIOSHA) requirements. There were 59 such fatalities in Michigan during calendar year 2000. (See following table for data and definitions.)

WORKPLACE INJURIES AND ILLNESSES

A complete census of occupational illnesses and injuries for Michigan does not exist. However, the bureau cooperates with the U.S. Bureau of Labor Statistics to sample Michigan's employers to produce annual estimates of the number of occurrences of work-related illness and injuries. The 2000 survey collected the 1999 illness and injury occurrences of 7,390 Michigan employers of which 5,934 were usable for estimation. The employer sample was stratified by industry and the results were used to project total occurrence estimates. The five-page table that follows the fatality data presents the results. Footnotes at the end of the table provide additional information about the methodology used. The sample excludes self-employed individuals, railroads, selected mining industries and the federal government.

INQUIRIES

Questions about these data may be directed to the MIOSHA Information Division, Bureau of Safety and Regulation, telephone (517) 322-1851.

**MIOSHA Program-Related Fatalities
Calendar Year 2000**

Occupational Health	2
General Industry	34
Construction	23
<hr/>	
TOTAL	59*

*Data is current as of 1/11/01.

Source: MIOSHA Information Division,
 Bureau of Safety and Regulation
 Michigan Department of Consumer and Industry Services

NOTE: A fatality is recorded as "program-related" if it appears to be related to one or more of the following conditions:

1. The incident was found to have resulted from violations of MIOSHA safety and health standards or the general duty clause.
2. The incident was considered to be the result of a failure to follow a good safety and health practice that would be the subject of a safety and health recommendation.
3. The information describing the incident is insufficient to make a clear distinction between a "program-related" and "non-program-related" incident, but the type and nature of the injury indicate that there is a high probability that the injury was a result of a failure to adhere to one or more MIOSHA standards, the general duty clause, or good safety and health practice.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999

Michigan										
(In thousands)										
Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
All Industries including State and local government ⁶		4,443.7	296.7	144.5	68.4	152.2	259.3	128.3	61.7	131.1
Private Industry ⁶		3,893.6	269.7	130.6	59.5	139.1	234.1	115.1	53.5	118.9
Agriculture, forestry, and fishing ⁶		45.0	3.1	1.5	1.0	1.6	2.8	1.4	0.9	1.4
Agricultural production ⁶	01-02	17.9	1.2	0.6	0.2	0.6	1.1	0.6	0.2	0.5
Agricultural services	07	26.3	1.9	0.9	0.7	1.0	1.7	0.8	0.7	0.9
Mining ⁷		7.2	0.5	0.3	0.2	0.2	0.5	0.2	0.1	0.2
Construction		193.9	14.4	6.3	5.1	8.1	13.9	6.0	4.8	7.9
General building contractors	15	43.7	2.6	1.0	0.9	1.5	2.4	0.9	0.7	1.4
Residential building construction	152	26.2	1.1	0.4	0.4	0.7	0.9	0.3	0.3	0.6
Nonresidential building construction	154	17.2	1.5	0.6	0.5	0.8	1.4	0.6	0.5	0.8
Heavy construction, except building	16	15.0	1.6	0.7	0.6	0.9	1.5	0.7	0.6	0.8
Heavy construction, except highway	162	10.7	1.3	0.6	0.5	0.7	1.2	0.6	0.5	0.6
Special trade contractors	17	135.2	10.2	4.5	3.7	5.7	10.0	4.3	3.5	5.6
Plumbing, heating, air-conditioning	171	30.9	2.4	0.7	0.5	1.7	2.3	0.6	0.5	1.7
Electrical work	173	26.9	2.0	0.8	0.6	1.2	2.0	0.8	0.6	1.1
Masonry, stonework, and plastering	174	14.8	1.1	0.6	0.5	0.5	1.0	0.5	0.4	0.5
Carpentry and floor work	175	12.6	1.0	0.4	0.4	0.6	1.0	0.4	0.4	0.6
Roofing, siding, and sheet metal work	176	7.7	0.8	0.4	0.4	0.4	0.8	0.4	0.3	0.3
Concrete work	177	12.1	0.8	0.5	0.4	0.3	0.8	0.4	0.4	0.3
Miscellaneous special trade contractors	179	23.2	1.7	0.8	0.6	0.9	1.7	0.8	0.6	0.9
Manufacturing		975.2	134.4	63.6	22.3	70.8	104.6	51.3	18.6	53.3
Durable goods		741.8	110.0	49.2	16.5	60.8	85.3	39.7	13.9	45.5
Lumber and wood products	24	17.8	2.0	1.1	0.7	0.8	1.8	1.1	0.6	0.7
Millwork, plywood and structural members	243	6.8	1.0	0.6	0.3	0.3	0.9	0.6	0.3	0.3
Furniture and fixtures	25	43.0	7.0	3.7	1.3	3.3	5.6	2.9	1.0	2.7
Office furniture	252	21.0	2.2	1.0	0.2	1.1	1.7	0.8	0.2	1.0
Partitions and fixtures	254	4.5	1.1	0.9	0.3	0.3	0.9	0.7	0.2	0.2
Wood partitions and fixtures	2541	2.1	0.5	0.4	0.1	0.2	0.5	0.3	0.1	0.2
Stone, clay, and glass products	32	21.3	2.5	1.1	0.5	1.4	2.2	1.0	0.5	1.2
Products of purchased glass	323	8.6	1.1	0.6	0.1	0.5	0.8	0.4	0.1	0.4
Concrete, gypsum, and plaster products	327	6.3	1.0	0.4	0.3	0.6	1.0	0.4	0.3	0.6
Primary metal industries	33	37.5	7.1	3.4	1.5	3.6	6.4	3.1	1.4	3.3
Blast furnace and basic steel products	331	11.8	1.4	0.6	0.2	0.9	1.3	0.5	0.2	0.8
Blast furnaces and steel mills	3312	8.5	1.1	0.4	0.2	0.7	1.0	0.4	0.1	0.6
Iron and steel foundries	332	10.3	2.7	1.3	0.6	1.4	2.5	1.1	0.5	1.3
Gray and ductile iron foundries	3321	7.3	1.9	0.9	0.4	1.0	1.7	0.8	0.4	0.9
Nonferrous foundries (castings)	336	7.0	1.3	0.6	0.2	0.7	1.2	0.5	0.2	0.7
Fabricated metal products	34	129.9	22.5	10.4	3.3	12.1	20.1	9.3	2.9	10.8
Cutlery, handtools, and hardware	342	5.6	0.8	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Hardware, n.e.c.	3429	4.4	0.6	0.3	0.2	0.3	0.5	0.3	0.1	0.2
Fabricated structural metal products	344	16.0	1.8	0.9	0.5	0.9	1.7	0.8	0.5	0.9
Sheet metal work	3444	5.0	0.6	0.3	0.1	0.3	0.5	0.2	0.1	0.3
Screw machine products, bolts, etc.	345	14.4	2.7	1.3	0.5	1.4	2.6	1.2	0.5	1.3

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 - Continued

Michigan										
(In thousands)										
Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Screw machine products	3451	7.5	1.2	0.6	0.2	0.7	1.1	0.5	0.2	0.6
Bolts, nuts, rivets, and washers	3452	6.9	1.5	0.7	0.3	0.8	1.5	0.7	0.3	0.8
Metal forgings and stampings	346	60.4	13.0	5.4	1.2	7.6	11.5	4.8	1.1	6.7
Automotive stampings	3465	54.4	11.6	4.8	1.0	6.8	10.2	4.3	0.9	5.9
Metal services, n.e.c.	347	14.6	2.0	1.2	0.4	0.8	1.7	1.0	0.3	0.7
Plating and polishing	3471	7.5	1.0	0.7	0.2	0.3	0.9	0.6	0.2	0.3
Metal coating and allied services	3479	7.1	1.0	0.5	0.2	0.5	0.9	0.4	0.1	0.4
Miscellaneous fabricated metal products	349	16.6	2.1	1.1	0.5	1.0	1.8	1.0	0.4	0.8
Industrial machinery and equipment	35	132.4	14.7	7.5	3.3	7.2	13.3	6.9	3.0	6.4
Construction and related machinery	353	9.7	1.2	0.6	0.2	0.6	1.2	0.6	0.2	0.6
Metalworking machinery	354	64.0	6.2	3.2	1.5	3.1	6.1	3.1	1.5	3.0
Machine tools, metal cutting types	3541	7.1	0.7	0.5	0.2	0.2	0.7	0.5	0.2	0.2
Special dies, tools, jigs and fixtures	3544	35.0	3.8	1.7	0.9	2.1	3.7	1.7	0.9	2.0
Machine tool accessories	3545	10.3	0.6	0.3	0.1	0.3	0.5	0.3	0.1	0.3
Special industry machinery	355	7.3	0.7	0.4	0.2	0.3	0.7	0.4	0.2	0.3
General industrial machinery	356	12.4	1.8	0.9	0.4	0.9	1.6	0.8	0.3	0.8
Industrial machinery, n.e.c.	359	28.0	3.5	2.0	0.9	1.5	3.0	1.7	0.7	1.2
Carburetors, pistons, rings, valves	3592	6.1	1.0	0.6	0.3	0.4	0.7	0.5	0.2	0.2
Industrial machinery, n.e.c.	3599	18.9	2.1	1.2	0.5	0.9	2.0	1.1	0.5	0.9
Electronic and other electric equipment	36	35.0	3.8	1.7	0.7	2.2	2.5	1.2	0.5	1.3
Household appliances	363	8.0	0.5	0.2	0.2	0.3	-	0.1	0.1	0.2
Electronic components and accessories	367	8.2	0.6	0.3	0.1	0.2	0.5	0.3	(*)	0.2
Miscellaneous electrical equipment and supplies	369	8.2	1.9	0.7	0.3	1.3	0.9	0.4	0.2	0.5
Transportation equipment	37	299.8	48.5	19.3	4.9	29.2	31.7	13.6	3.8	18.1
Motor vehicles and equipment	371	288.0	47.1	18.8	4.7	28.3	30.6	13.1	3.7	17.4
Motor vehicles and car bodies	3711	142.2	24.5	10.2	2.9	14.4	16.2	7.1	2.2	9.1
Motor vehicle parts and accessories	3714	144.0	22.3	8.5	1.8	13.8	14.1	6.0	1.4	8.1
Instruments and related products	38	16.8	1.2	0.4	0.1	0.7	1.0	0.3	0.1	0.7
Measuring and controlling devices	382	8.8	0.8	0.2	0.1	-	0.8	0.2	0.1	-
Medical instruments and supplies	384	4.7	0.3	0.2	(*)	0.1	0.2	0.1	(*)	0.1
Miscellaneous manufacturing industries	39	8.3	0.8	0.5	0.2	0.3	0.7	0.4	0.1	0.3
Nondurable goods		233.5	24.3	14.3	5.8	10.0	19.4	11.6	4.7	7.8
Food and kindred products	20	38.1	4.4	2.9	1.2	1.5	3.9	2.6	1.1	1.3
Meat products	201	5.7	0.6	0.4	0.1	0.2	0.5	0.3	0.1	0.2
Dairy products	202	4.7	0.5	0.4	0.2	0.1	0.5	0.4	0.2	0.1
Preserved fruits and vegetables	203	6.8	0.6	0.4	0.1	0.3	0.6	0.3	0.1	0.2
Grain mill products	204	5.6	0.4	0.2	0.2	0.2	0.4	0.2	0.1	0.2
Bakery products	205	5.6	0.7	0.5	0.2	0.2	0.6	0.4	0.2	0.2
Beverages	208	4.9	0.7	0.5	0.3	0.2	0.6	0.5	0.3	0.2
Apparel and other textile products	23	20.3	3.5	2.2	0.5	1.4	2.0	1.2	0.3	0.8
Miscellaneous fabricated textile products	239	19.8	3.5	2.2	0.5	1.4	2.0	1.2	0.3	0.8
Automotive and apparel trimmings	2396	17.1	3.4	2.1	0.4	1.3	1.9	1.1	0.2	0.8
Paper and allied products	26	20.2	1.9	1.1	0.5	0.8	1.8	1.1	0.4	0.7
Paper mills	262	4.9	0.3	0.1	0.1	0.2	0.3	0.1	0.1	0.2
Paperboard containers and boxes	265	7.3	1.0	0.7	0.2	0.3	0.9	0.7	0.2	0.3
Printing and publishing	27	42.5	2.7	1.5	0.9	1.2	2.3	1.3	0.8	1.0
Newspapers	271	13.8	0.7	0.4	0.3	0.3	0.6	0.4	0.3	0.3
Books	273	5.0	0.4	0.3	0.1	0.2	0.4	0.2	0.1	0.2
Commercial printing	275	16.5	1.0	0.6	0.3	0.4	0.9	0.5	0.3	0.3

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Commercial printing, lithographic	2752	12.7	0.7	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Chemicals and allied products	28	43.5	2.4	1.2	0.5	1.2	1.9	1.1	0.4	0.8
Plastics materials and synthetics	282	6.1	0.3	0.2	—	0.1	—	0.1	—	—
Drugs	283	14.0	0.9	0.3	0.2	0.6	0.6	0.2	0.1	0.3
Pharmaceutical preparations	2834	13.2	0.8	0.2	0.1	0.5	0.5	0.2	0.1	0.3
Rubber and miscellaneous plastics products	30	62.8	8.4	5.0	2.1	3.4	6.9	4.0	1.5	2.9
Miscellaneous plastics products, n.e.c.	308	52.9	7.2	4.3	1.8	2.9	6.1	3.5	1.4	2.5
Plastics products, n.e.c.	3089	40.2	5.7	3.5	1.4	2.2	4.7	2.8	1.0	1.9
Transportation and public utilities⁷		170.6	16.2	9.9	5.2	6.3	15.8	9.7	5.0	6.1
Railroad transportation ⁷	40	—	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1
Local and interurban passenger transit	41	7.9	1.0	0.6	0.5	0.4	1.0	0.6	0.5	0.4
Trucking and warehousing	42	47.3	4.9	2.7	2.0	2.3	4.8	2.6	1.9	2.2
Transportation by air	45	32.7	4.5	3.1	1.4	1.4	4.4	3.0	1.3	1.4
Transportation services	47	16.4	1.6	1.1	0.4	0.5	1.6	1.1	0.4	0.5
Communications	48	31.5	1.2	0.8	0.3	0.4	1.1	0.8	0.3	0.3
Electric, gas, and sanitary services	49	32.3	2.4	1.3	0.6	1.1	2.3	1.2	0.6	1.1
Wholesale and retail trade		1,056.4	55.6	26.5	14.1	29.2	53.8	25.2	13.3	28.6
Wholesale trade		234.5	19.3	9.4	5.4	9.9	18.2	8.7	5.0	9.5
Wholesale trade--durable goods	50	155.1	12.2	5.2	3.2	7.0	11.4	4.7	3.0	6.7
Wholesale trade--nondurable goods	51	79.4	7.1	4.2	2.2	2.9	6.8	4.0	2.0	2.8
Retail trade		822.0	36.4	17.1	8.7	19.3	35.6	16.5	8.3	19.1
Building materials and garden supplies	52	40.9	3.2	1.7	0.9	1.5	3.1	1.7	0.8	1.4
Lumber and other building materials	521	21.2	2.0	1.1	0.5	0.9	1.9	—	—	0.9
Hardware stores	525	11.3	0.8	0.4	0.2	0.3	0.7	0.4	0.2	0.3
General merchandise stores	53	131.9	8.3	5.9	2.0	2.4	8.1	5.8	1.9	2.3
Food stores	54	103.6	4.9	1.9	1.2	3.0	4.8	1.8	1.2	3.0
Grocery stores	541	88.7	4.3	1.8	1.1	2.5	4.2	1.7	1.1	2.4
Automotive dealers and service stations	55	85.8	4.5	1.9	1.1	2.5	4.4	1.9	1.0	2.5
New and used car dealers	551	40.1	2.5	0.9	0.5	1.5	2.4	0.9	0.5	1.5
Gasoline service stations	554	27.7	1.0	0.5	0.2	0.5	1.0	0.5	0.2	0.5
Apparel and accessory stores	56	35.5	0.8	0.3	0.2	0.5	0.7	0.2	0.1	0.5
Furniture and home furnishings stores	57	35.7	1.7	0.8	0.5	0.9	1.7	0.8	0.5	0.9
Eating and drinking places	58	287.3	10.5	3.3	2.0	7.1	10.4	3.3	2.0	7.1
Miscellaneous retail	59	101.2	2.6	1.2	0.9	1.4	2.5	1.2	0.8	1.4
Finance, insurance, and real estate		201.8	3.1	1.7	1.2	1.3	2.7	1.6	1.1	1.2
Depository institutions	60	62.8	0.6	0.3	0.2	0.3	0.5	0.2	0.2	0.3
Insurance carriers	63	42.2	0.6	0.4	0.2	0.2	0.5	0.3	0.2	0.2
Real estate	65	39.5	1.5	0.9	0.6	0.6	1.5	0.9	0.6	0.5
Services		1,197.4	42.4	20.9	10.4	21.5	39.9	19.8	9.5	20.2
Hotels and other lodging places	70	37.4	2.8	1.2	0.5	1.6	2.7	1.2	0.5	1.5

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Personal services	72	44.0	0.9	0.6	0.3	0.4	0.9	0.5	0.3	0.4
Laundry, cleaning, and garment services	721	15.3	0.8	0.5	0.2	0.3	0.7	0.4	0.2	0.3
Auto repair, services, and parking	75	40.2	2.1	0.9	0.5	1.2	2.1	0.9	0.5	1.2
Automotive repair shops	753	23.4	1.1	0.5	0.2	0.6	1.1	0.5	0.2	0.6
Automotive services, except repair	754	10.4	0.6	0.3	0.3	0.3	0.6	0.3	0.3	0.2
Miscellaneous repair services	76	13.7	1.0	0.5	0.2	0.5	1.0	0.5	0.2	0.5
Amusement and recreation services	79	56.1	2.4	1.3	0.6	1.1	2.1	1.2	0.6	1.0
Health services	80	353.9	17.2	9.1	4.2	8.1	15.9	8.7	4.0	7.2
Nursing and personal care facilities	805	47.8	5.3	3.4	1.3	1.9	5.1	3.4	1.3	1.7
Hospitals	806	169.1	10.0	5.0	—	5.0	9.0	4.7	—	4.3
Educational services	82	37.5	0.6	0.2	0.2	0.4	0.6	0.2	0.2	0.4
Colleges and universities	822	15.3	0.4	0.1	0.1	0.3	0.4	0.1	0.1	0.3
Social services	83	86.0	4.3	2.1	1.2	2.2	4.2	2.1	1.2	2.1
State and local government		550.1	27.0	13.9	8.9	13.1	25.3	13.1	8.2	12.1
State government		139.1	6.0	3.4	2.1	2.6	5.4	3.1	1.9	2.2
Services		90.4	3.2	1.8	0.9	1.4	2.9	1.6	0.8	1.2
Educational services	82	65.5	1.8	0.9	0.4	0.9	1.5	0.8	0.4	0.7
Social services	83	11.0	0.5	0.2	0.1	0.3	0.4	0.2	0.1	0.2
Public administration		48.7	2.8	1.6	1.2	1.2	2.5	1.5	1.1	1.0
Justice, public order, and safety	92	23.1	2.0	1.2	0.9	0.7	1.7	1.1	0.8	0.6
Administration of human resources	94	8.9	0.2	0.1	—	0.1	—	0.1	—	0.1
Administration of economic programs	96	6.6	0.3	0.1	0.1	0.2	0.3	0.1	0.1	0.1
Local government		411.0	21.0	10.5	6.8	10.4	19.9	10.0	6.3	9.9
Construction		5.6	0.8	0.4	0.3	0.5	0.7	0.3	0.2	0.4
Services		269.4	10.5	4.9	3.1	5.5	10.1	4.7	2.9	5.4
Nursing and personal care facilities	805	5.6	0.9	0.7	0.5	0.2	0.9	0.7	0.4	0.2
Hospitals	806	14.5	1.1	0.6	0.4	0.5	1.0	0.5	0.4	0.5
Educational services	82	247.6	8.4	3.6	2.2	4.8	8.2	3.5	2.1	4.7
Elementary and secondary schools	821	228.4	8.0	3.3	2.1	4.6	7.7	3.2	2.0	4.5

See footnotes at end of table.

Table 7. Number of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 – Continued

Michigan

(In thousands)

Industry ¹	SIC code ²	1999 Annual average employment ³ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁴	With days away from work ⁵			Total ⁴	With days away from work ⁵	
Public administration		132.3	9.3	5.0	3.2	4.3	8.7	4.7	3.0	4.0
Executive, legislative, and general Administration of human resources	91	119.3	8.4	4.5	2.9	3.9	8.0	4.2	2.7	3.8
	94	7.7	0.3	0.3	0.1	0.1	—	0.3	0.1	(⁶)

¹ Totals include data for industries not shown separately.² Standard Industrial Classification Manual, 1987 Edition.³ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program.⁴ Total lost workday cases involve days away from work, or days of restricted work activity, or both.⁵ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.⁶ Excludes farms with fewer than 11 employees.⁷ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent

mining contractors are excluded from the coal, metal, and nonmetal mining industries.

⁸ Fewer than 50 cases.

NOTE: Because of rounding, components may not add to totals.

n.e.c. = not elsewhere classified.

-- Indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses, in cooperation with participating State agencies.